



**(12) Patent Application Publication**  
**Kupratis et al.**

(43) **Pub. Date:** **Oct. 3, 2013**

## Publication Classification

(51)	<b>Int. Cl.</b> <i>F01D 15/12</i>	(2006.01)
(52)	<b>U.S. Cl.</b> USPC .....	415/122.1

(57) **ABSTRACT**

### Related U.S. Application Data

A gas turbine engine includes first and second shafts rotatable about a common axis. The gas turbine engine includes a fan, and first and second gear trains interconnected to one another and coupling the first shaft to fan.

